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U.S. DEPARTMENT OF LABOR  
Occupational Safety and Health AdministrationForm Approved  
OMB No. 44-R1387

## MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

## SECTION I

MANUFACTURER'S NAME  
SPECTRUM CHEMICAL MFG. CORP.EMERGENCY TELEPHONE NO.  
Transp. Fire Sfty.: (800) 424-9300  
Poisoning: (213) 664-2121ADDRESS (Number, Street, City, State, and ZIP Code)  
14422 So. San Pedro Street, Gardena, CA 90248CHEMICAL NAME AND SYNONYMS  
Silver Cyanide

TRADE NAME AND SYNONYMS

CHEMICAL FAMILY  
Inorganic salt POISONOUS!FORMULA  
AgCN

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

## SECTION III - PHYSICAL DATA

M.P. Decomposes	320° C	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	3.95
VAPOR PRESSURE (mm Hg.)	NA	PERCENT, VOLATILE BY VOLUME (%)	NA
VAPOR DENSITY (AIR=1)	NA	EVAPORATION RATE (_____ =1)	NA
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR White to yellow-white powder			

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	None*	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA Water, CO <sub>2</sub> , Foam, dry chemical.				
SPECIAL FIRE FIGHTING PROCEDURES Wear a self-contained breathing apparatus. Approach fire from upwind.				
UNUSUAL FIRE AND EXPLOSION HAZARDS On contact with acid, or acid fumes it may produce toxic and flammable fumes of HCN. EXTREMELY TOXIC!				

PAGE (1) \*Non-combustible, but when heated to decomposition or in contact with acids,  
(Continued on reverse side)  
it releases flammable hydrogen cyanide.Form OSHA-20  
Rev. May 72

BOE-C6-0209825

## SECTION V - HEALTH HAZARD DATA

### THRESHOLD LIMIT VALUE

None indicated. (10 ppm for Hydrogen Cyanide.) LD<sub>50</sub> Oral (RAT) = 123 mg/Kg.

### EFFECTS OF OVEREXPOSURE

Toxicity high via oral route. Silver salts may produce argyria (greyish pigmentation on skin). Positioning can occur by inhalation and by skin absorption.

### EMERGENCY AND FIRST AID PROCEDURES

Skin: Wash with water for 15 minutes.

Eyes: Immediately wash with water for 15 minutes; consult physician.

Ingestion: If patient is conscious, give large amounts of water and induce vomiting.

Treat for cyanide poisoning with use of Amyl Nitrite Pearls. Consult physician immediately.

## SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	x	except in the presence of acids.

### INCOMPATIBILITY (Materials to avoid)

Violent reaction with F<sub>2</sub>, Mg

### HAZARDOUS DECOMPOSITION PRODUCTS

When heated to decomposition or in contact with acids, emits toxic fumes of HCN

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	x	

## SECTION VII - SPILL OR LEAK PROCEDURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

See Disposal Methods below.

### WASTE DISPOSAL METHOD

- 1.) Send to a licensed silver recovery firm.
- 2.) Send to an approved hazardous materials landfill.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Dust mask

VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General) x	OTHER

PROTECTIVE GLOVES	Rubber	EYE PROTECTION	Goggles
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OTHER PROTECTIVE EQUIPMENT  
Have self-contained breathing apparatus available.

## SECTION IX - SPECIAL PRECAUTIONS

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a cool, dry place away from acids. Keep tightly closed and protect from light (darkens on exposure).

### OTHER PRECAUTIONS

Inside storage should be in a cool, well-ventilated, non-combustible location, away from all possible sources of ignition.